

IN THE CLAIMS:

1. (currently amended) A kit comprising a non-amplified oligonucleotide detection assay configured for detecting a CFTR allele selected from the group consisting of 2184delA or the wild-type version thereof, wherein said non-amplified oligonucleotide detection assay comprises first and second oligonucleotides configured to form an invasive cleavage structure in combination with a target sequence comprising said CFTR allele, wherein said first oligonucleotide comprises a 5' portion and a 3' portion, wherein said 3' portion is configured to hybridize to said target sequence, and wherein said 5' portion is configured to not hybridize to said target sequence, and wherein said second oligonucleotide comprises a 5' portion and a 3' portion, wherein said 5' portion is configured to hybridize to said target sequence, and wherein said 3' portion is configured to not hybridize to said target sequence, and wherein said second oligonucleotide comprises SEQ ID NO:85.

2-4. (cancelled)

5-14. (cancelled).

15. (withdrawn) A kit comprising oligonucleotide detection assays configured for detecting a set of CFTR alleles, wherein said set is selected from:

- a) a first set comprising 2789+5G>A, R1162X, R560T, 1898+1G>A, delI507, I148T, and A455E;
- b) a second set comprising 3120+1G>A, 3659delC, G551D, N1303K, 1078delT, R334W, 711+1G>T, and 3849+10kb
- c) a third set comprising 621+1G>T, W1282X, 1717-1G>A, and R117H;
- d) a fourth set comprising R347P, G85E, G542X, and R553X; and
- e) a fifth set comprising 2184delA.

16. (withdrawn) The kit of claim 15, wherein said fifth set comprises 2184delA or the wild type version thereof.

17. (withdrawn) The kit of Claim 15, wherein said oligonucleotide detection assays comprise first and second oligonucleotides configured to form an invasive cleavage structure in combination with target sequences comprising said CFTR alleles.

18. (withdrawn) The kit of Claim 17, wherein said first oligonucleotide comprises a 5' portion and a 3' portion, wherein said 3' portion is configured to hybridize to said target sequence, and wherein said 5' portion is configured to not hybridize to said target sequence.

19. (withdrawn) The kit of Claim 17, wherein said second oligonucleotide comprises a 5' portion and a 3' portion, wherein said 5' portion is configured to hybridize to said target sequence, and wherein said 3' portion is configured not to hybridize to said target sequence.

20-21. (cancelled).

22. (new) The kit of Claim 1, wherein said first oligonucleotide sequence comprises SEQ ID NO:86.

23. (new) The kit of Claim 1, wherein said first oligonucleotide sequence comprises SEQ ID NO:87.